

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P528890

Luminaire Tested: **GALN-SA4A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13820 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

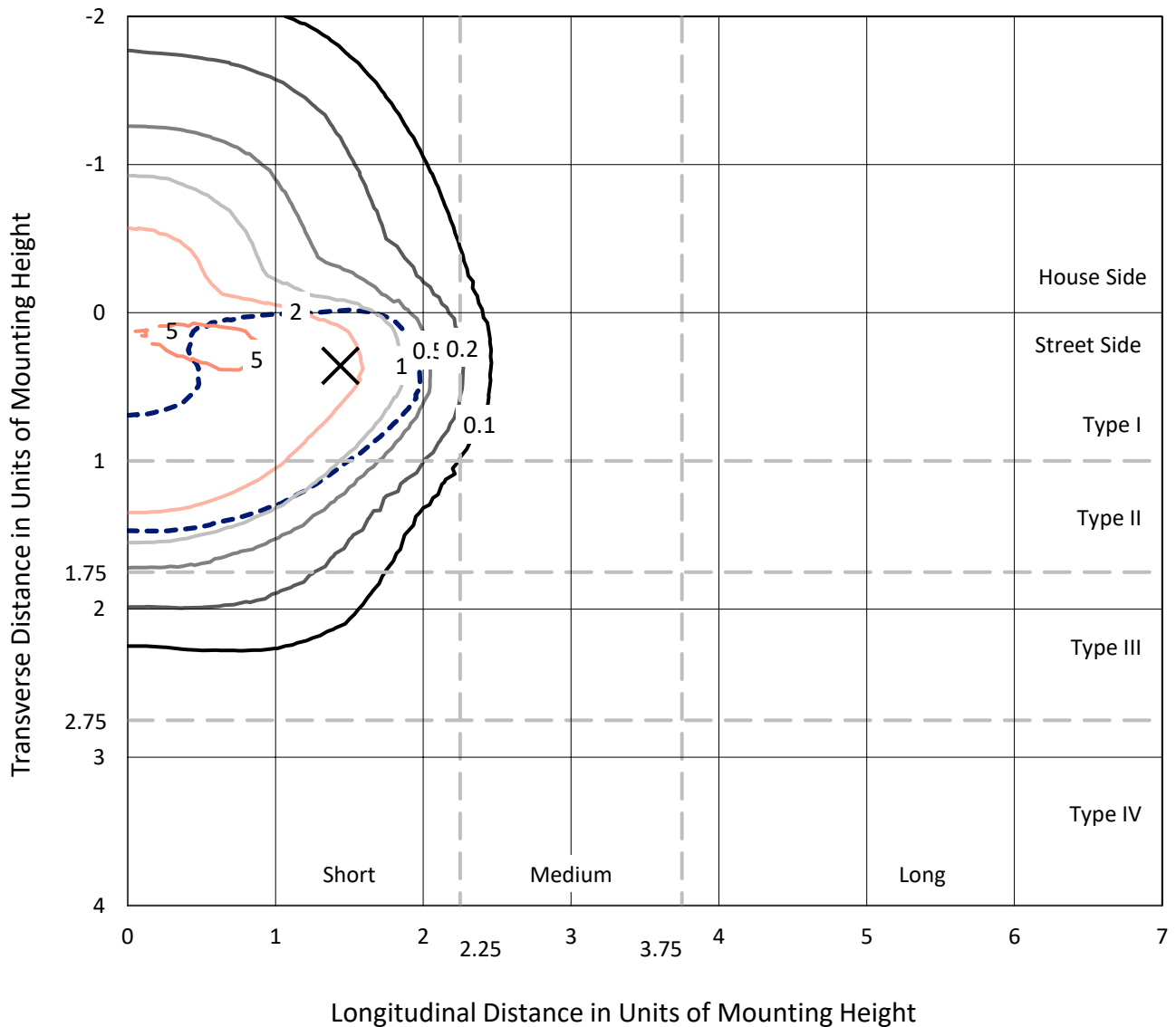
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

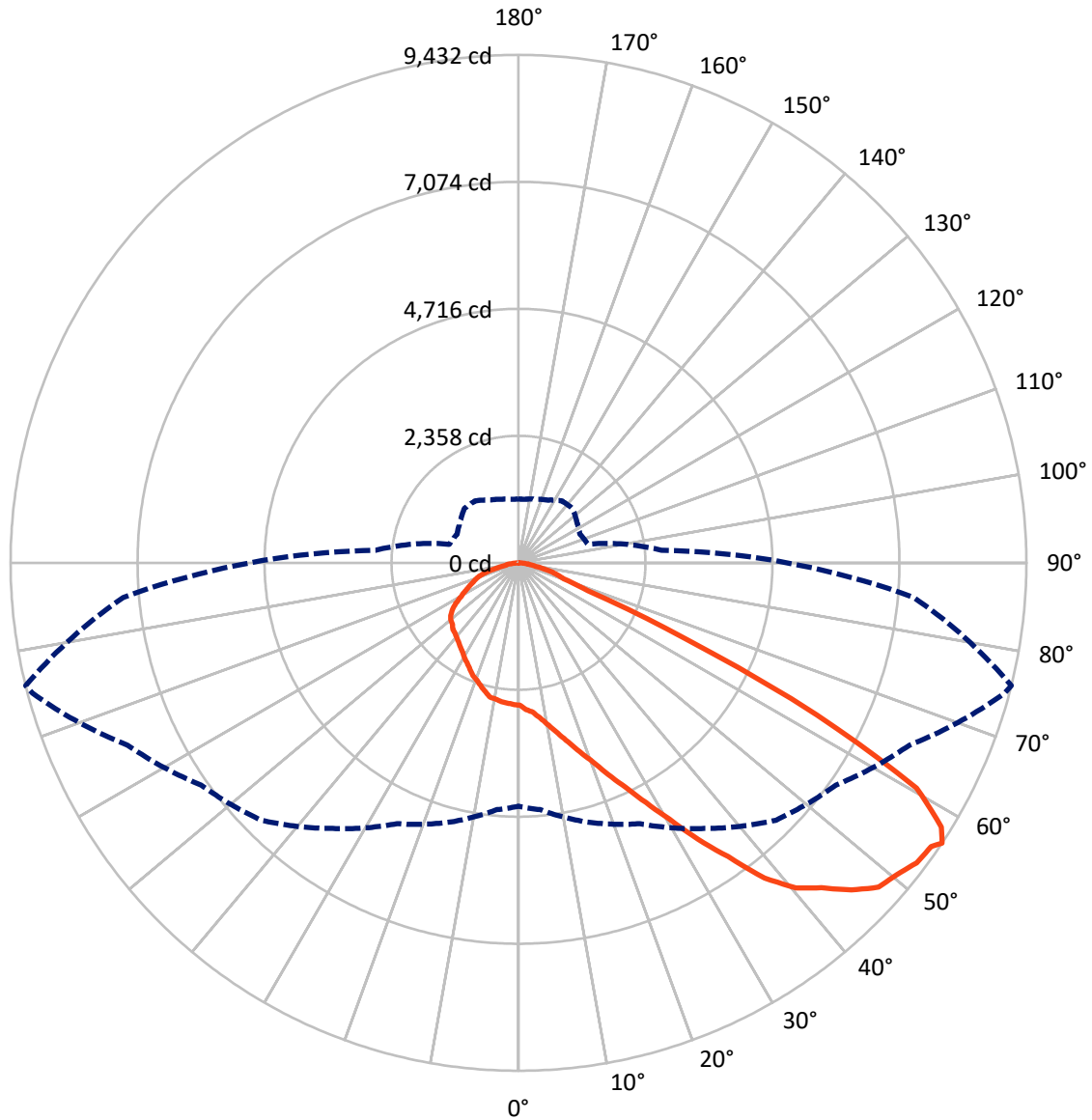
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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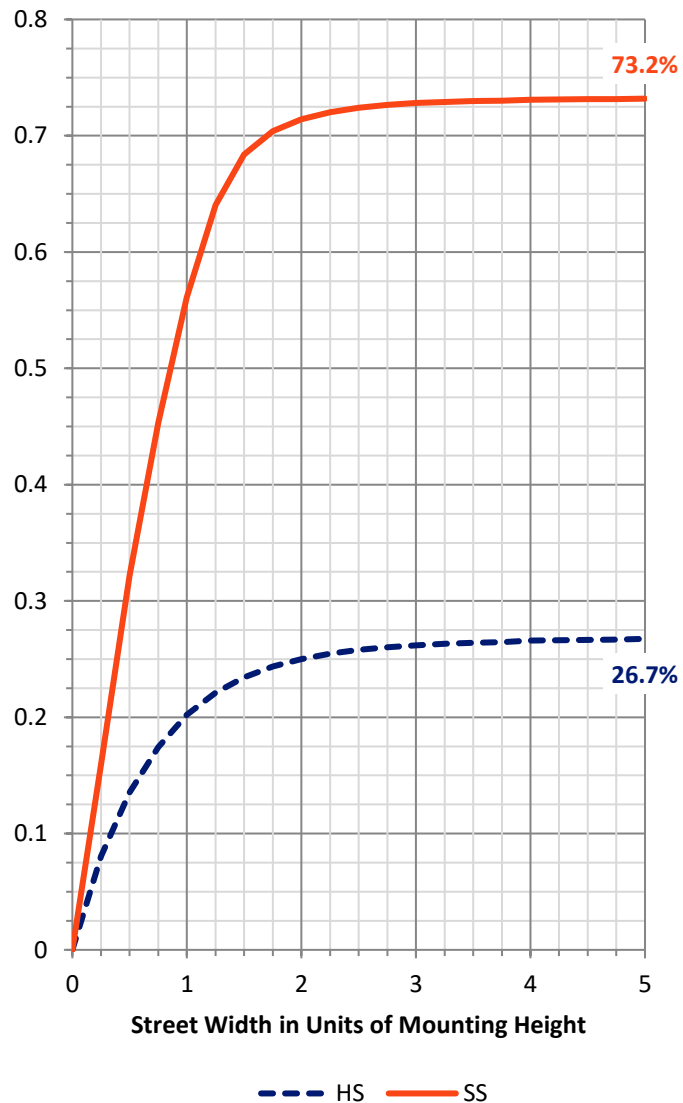
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3715.8	0.0	3715.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	10104.2	0.0	10104.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	13820.0	0.0	13820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.2	1.9
10°-20°	823.8	6.0
20°-30°	1440.6	10.4
30°-40°	2255.6	16.3
40°-50°	3281.3	23.7
50°-60°	3606.4	26.1
60°-70°	1609.7	11.6
70°-80°	464.9	3.4
80°-90°	75.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13820.0	100.0
0°-180°	13820.0	100.0

**Coefficient of Utilization**

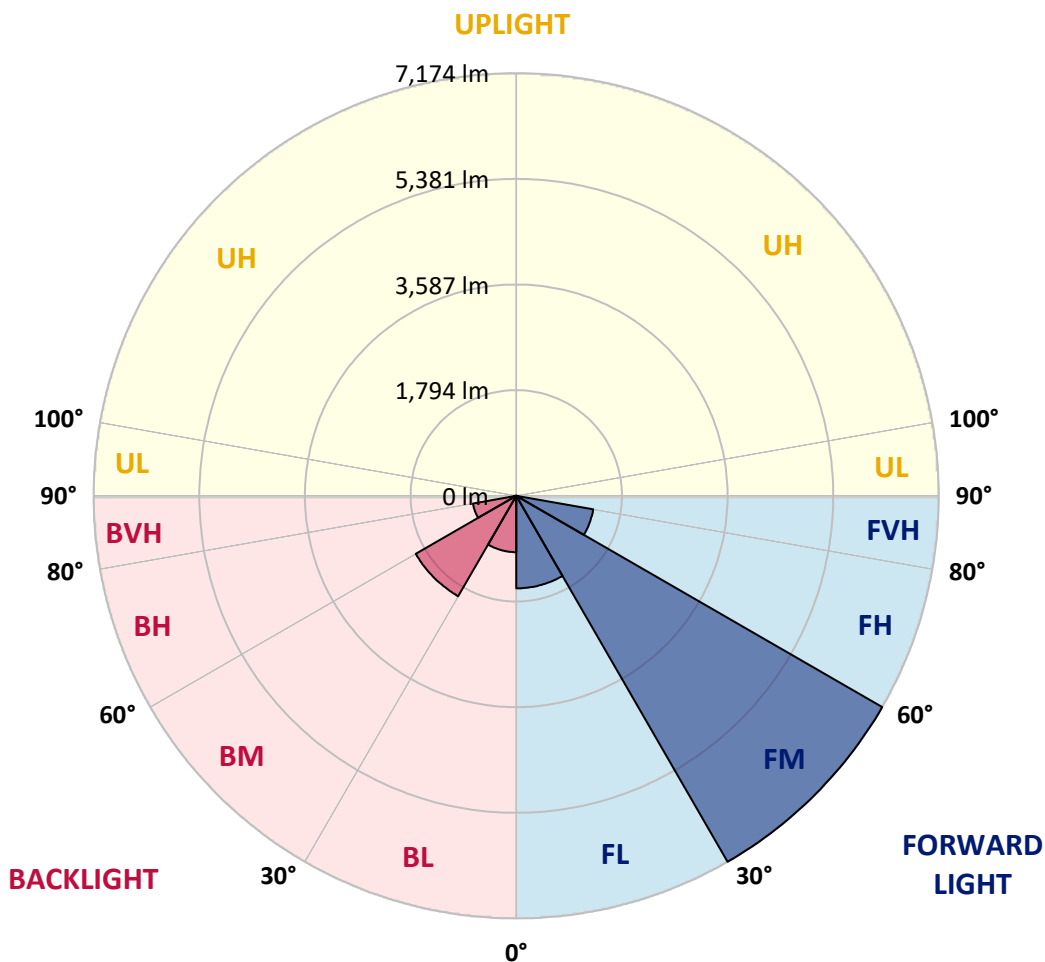


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.5	11.4			
FM (30°-60°)	7174.2	51.9			
FH (60°-80°)	1327.0	9.6			G1/1800
FVH (80°-90°)	32.5	0.2			G1/100
BL (0°-30°)	956.1	6.9	B2/1000		
BM (30°-60°)	1969.1	14.2	B2/2500		
BH (60°-80°)	747.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	42.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3
2.5°	2913.0	2866.4	2862.8	2850.3	2857.5	2825.2	2791.2	2746.4	2699.8	2728.5	2660.4
5°	3117.2	3054.5	3079.6	3036.6	3042.0	2999.0	2929.1	2877.2	2819.8	2785.8	2737.4
7.5°	3188.9	3194.3	3212.2	3205.0	3169.2	3169.2	3122.6	3031.2	2930.9	2911.2	2830.6
10°	3285.6	3287.4	3267.7	3273.1	3323.3	3300.0	3258.8	3219.4	3090.4	3067.1	2923.8
12.5°	3319.7	3287.4	3319.7	3348.3	3407.5	3439.7	3430.8	3402.1	3264.1	3248.0	3038.4
15°	3325.1	3305.3	3332.2	3396.7	3448.7	3584.8	3652.9	3633.2	3450.5	3452.3	3167.4
17.5°	3300.0	3326.8	3337.6	3393.1	3513.2	3640.4	3837.4	3864.3	3713.8	3690.5	3330.4
20°	3334.0	3314.3	3328.6	3378.8	3538.2	3737.1	3995.1	4172.4	3961.0	3944.9	3498.8
22.5°	3464.8	3437.9	3434.3	3466.6	3581.2	3787.3	4161.7	4480.6	4262.0	4271.0	3708.4
25°	3566.9	3581.2	3568.7	3566.9	3638.6	3862.5	4382.1	4847.8	4670.5	4618.5	3955.7
27.5°	3742.5	3776.5	3751.4	3785.5	3769.4	3975.4	4539.7	5254.5	5111.2	5041.3	4179.6
30°	3986.1	4004.0	3980.8	3980.8	3932.4	4133.0	4683.0	5679.1	5620.0	5525.0	4443.0
32.5°	4306.8	4333.7	4287.1	4260.2	4253.1	4367.7	4941.0	6098.3	6198.6	6118.0	4792.3
35°	4731.4	4715.3	4659.7	4634.7	4537.9	4727.8	5324.4	6580.2	6843.6	6700.3	5215.1
37.5°	5105.8	5080.7	5077.2	4937.4	4960.7	5116.6	5650.4	6945.7	7468.8	7427.6	5661.2
40°	5455.2	5478.5	5516.1	5437.3	5401.4	5573.4	6030.2	7225.2	7954.3	7938.2	6005.2
42.5°	5829.6	5808.1	5874.4	5808.1	5754.4	5998.0	6442.3	7418.7	8380.7	8248.1	6365.3
45°	6372.4	6304.3	6327.6	6333.0	6293.6	6383.2	6612.5	7558.4	8679.9	8665.6	6628.6
47.5°	6825.7	6827.5	6788.1	6757.6	6637.6	6727.1	6802.4	7646.2	9023.9	9000.6	6730.7
50°	6994.1	6970.8	7085.5	7151.7	7158.9	6976.2	6951.1	7694.6	9204.8	9102.7	6832.8
52.5°	6388.6	6410.0	6591.0	6985.1	7212.6	7232.4	7124.9	7794.9	9278.3	9256.8	6915.3
55°	5141.7	5245.6	5543.0	5998.0	6537.2	7130.2	7313.0	7898.8	9317.7	9299.8	7280.7
56°	4520.0	4600.6	4987.6	5344.1	6021.3	6759.4	7194.7	8009.9	9348.1	9432.3	7366.7
57.5°	3638.6	3731.7	4009.4	4414.3	5213.3	6053.5	6868.7	7873.7	9229.9	9262.1	7429.4
60°	2275.2	2284.2	2617.4	2884.3	3446.9	4267.4	5242.0	6850.8	8542.0	8495.4	6673.4
62.5°	1492.3	1494.1	1796.9	2015.5	2271.6	2459.8	3085.0	4543.3	6302.6	6220.1	4751.1
65°	1048.0	1071.3	1306.0	1598.0	1701.9	1603.4	1583.7	2395.3	3520.3	3402.1	2552.9
67.5°	766.8	768.6	976.4	1289.9	1440.4	1220.0	990.7	1169.9	1393.8	1390.2	1182.4
70°	507.0	528.5	687.9	963.8	1135.8	980.0	809.8	836.6	886.8	886.8	879.6
72.5°	295.6	315.3	421.0	610.9	637.8	612.7	641.4	716.6	748.9	747.1	738.1
75°	168.4	177.4	200.6	254.4	317.1	374.4	471.2	542.8	575.1	594.8	571.5
77.5°	98.5	103.9	118.2	145.1	164.8	202.4	256.2	306.3	349.3	344.0	347.6
80°	52.0	52.0	66.3	86.0	114.7	143.3	170.2	198.9	222.1	227.5	232.9
82.5°	30.5	32.2	43.0	62.7	82.4	102.1	130.8	150.5	172.0	173.8	177.4
85°	16.1	17.9	26.9	41.2	55.5	62.7	64.5	60.9	66.3	62.7	71.7
87.5°	5.4	5.4	9.0	7.2	7.2	9.0	10.7	10.7	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3	2644.3
2.5°	2658.6	2658.6	2628.2	2570.8	2561.9	2538.6	2517.1	2515.3	2499.2	2484.8	2477.7
5°	2708.8	2653.2	2608.4	2556.5	2495.6	2466.9	2434.7	2398.8	2384.5	2398.8	2397.1
7.5°	2766.1	2719.5	2585.2	2488.4	2418.5	2389.9	2354.1	2316.4	2320.0	2320.0	2294.9
10°	2821.6	2758.9	2544.0	2420.3	2318.2	2296.7	2277.0	2291.4	2309.3	2312.8	2296.7
12.5°	2914.8	2773.3	2524.2	2352.3	2287.8	2241.2	2253.7	2293.1	2330.8	2320.0	2332.6
15°	2984.7	2785.8	2434.7	2282.4	2201.8	2223.3	2268.1	2294.9	2357.6	2350.5	2363.0
17.5°	3052.7	2793.0	2346.9	2189.2	2155.2	2214.3	2248.4	2325.4	2345.1	2388.1	2404.2
20°	3192.5	2807.3	2257.3	2131.9	2121.2	2189.2	2248.4	2284.2	2327.2	2364.8	2364.8
22.5°	3264.1	2800.1	2198.2	2056.7	2090.7	2133.7	2187.4	2248.4	2248.4	2284.2	2286.0
25°	3353.7	2771.5	2105.0	2020.8	2045.9	2087.1	2148.0	2126.5	2149.8	2149.8	2178.5
27.5°	3455.8	2710.6	2024.4	1956.3	2006.5	2051.3	2060.2	2045.9	2019.0	2015.5	2004.7
30°	3538.2	2635.3	1965.3	1934.8	1976.0	2001.1	1972.5	1942.0	1895.4	1891.8	1866.8
32.5°	3651.1	2542.2	1891.8	1881.1	1927.7	1929.5	1920.5	1873.9	1805.8	1777.2	1748.5
35°	3841.0	2488.4	1836.3	1852.4	1866.8	1861.4	1845.3	1795.1	1727.0	1714.5	1703.7
37.5°	3980.8	2449.0	1779.0	1798.7	1811.2	1818.4	1770.0	1714.5	1716.3	1691.2	1684.0
40°	4138.4	2423.9	1732.4	1741.4	1743.1	1766.4	1707.3	1680.4	1693.0	1676.9	1687.6
42.5°	4340.8	2431.1	1684.0	1676.9	1710.9	1701.9	1673.3	1637.4	1644.6	1596.2	1603.4
45°	4448.3	2479.5	1655.4	1623.1	1660.7	1658.9	1621.3	1587.3	1544.3	1451.1	1454.7
47.5°	4520.0	2492.0	1587.3	1565.8	1605.2	1628.5	1585.5	1506.7	1445.8	1379.5	1363.3
50°	4593.5	2515.3	1555.0	1510.2	1526.4	1581.9	1528.2	1452.9	1393.8	1334.7	1343.6
52.5°	4657.9	2560.1	1492.3	1426.0	1454.7	1515.6	1487.0	1395.6	1331.1	1282.7	1268.4
55°	4944.6	2660.4	1386.6	1300.6	1368.7	1445.8	1429.6	1318.6	1248.7	1223.6	1220.0
56°	4989.4	2664.0	1331.1	1257.6	1320.3	1422.5	1402.8	1284.5	1221.8	1182.4	1184.2
57.5°	4996.5	2621.0	1252.3	1218.2	1272.0	1388.4	1363.3	1257.6	1171.7	1135.8	1125.1
60°	4396.4	2045.9	1153.7	1132.2	1194.9	1284.5	1275.6	1184.2	1087.5	1046.2	1066.0
62.5°	2997.2	1499.5	1076.7	1073.1	1105.4	1193.2	1169.9	1087.5	1006.8	980.0	967.4
65°	1744.9	1137.6	1001.5	987.1	1014.0	1060.6	1076.7	990.7	906.5	888.6	883.2
67.5°	1030.1	940.5	904.7	881.4	872.5	901.1	913.7	863.5	779.3	754.2	775.7
70°	861.7	836.6	838.4	799.0	777.5	757.8	747.1	702.3	632.4	600.2	591.2
72.5°	743.5	732.7	725.6	689.7	670.0	625.2	578.7	533.9	481.9	455.0	456.8
75°	567.9	564.3	567.9	550.0	516.0	480.1	437.1	379.8	340.4	306.3	313.5
77.5°	338.6	349.3	354.7	347.6	333.2	301.0	274.1	236.5	198.9	172.0	168.4
80°	232.9	241.9	250.8	241.9	227.5	204.2	175.6	146.9	120.0	105.7	102.1
82.5°	177.4	186.3	191.7	182.7	164.8	139.7	120.0	100.3	78.8	64.5	60.9
85°	64.5	73.5	71.7	86.0	93.2	89.6	77.0	59.1	44.8	32.2	30.5
87.5°	17.9	16.1	17.9	17.9	17.9	16.1	14.3	14.3	14.3	9.0	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)